

LIM Minutes 17/04/2018 (CERN)

Present: Diogo Castro, Ben Couturier, Marco Clemencic, Juan David Gonzalez, Ilias Goulas, Gunter Folger, Walter Lampl, Patricia Mendez, Simone Mosciatti, Ed Moyse, Marcin Nowak, Rafal Pacholek, Emil Obreshkov, Graeme Stewart.

Phone: Ivan Razumov

- Preparation of the L&I Workshop

- Speakers confirmed for LHCb, ATLAS, BE, ALICE and also for the Genser presentation.

- CVMFS news

- IT has deployed a new HW structure in our Stratum0 cvmfs-sft-nightlies including a local cache. Without any further HW modification, the publication time has decreased in about 30-40 min per platform. At this moment all platforms are being published before the next working day.
- As followup, the Stratum0 cvmfs-sft, will be also upgraded by the 23rd of April

- New packages, versions and compilers

- clang6.0.0 with gcc62binutils is currently under built. It will be provided in cvmfs by today
 - The Generators team should check the builds since several generators are failing for these builds.
- Geant4 patch version for 10.4 already included in the builds —> removing its dependency with Qt4, leaving exclusively Qt5.
- Blas package has been upgraded to the latest version 3.8.1
- LHCb and ATLAS has requested the upgrade of the xrootd package to the latest version.
 - Patricia will provide by tomorrow a new RPM containing the mentioned package.

- ARM machines status

- in about one month the next R&D meeting at the IT will have a new session including alternative architectures such as ARM64 in the agenda. We will be invited by Helge to participate.

Tuesday, 17 April 2018

- Patricia has sent a ticket to techlab asking for access to the latest ARM64 to include it in our own SFT build system
- Oslo University is ready to provide extra help to build ATLAS sw in their own ARM farm in the context of an Openstack project.
- LHCb has been able to basically built the LHCb sw on top of LCG_93 using ARM. The patches they have applied will be also used by SFT as soon as tech lab provides us with the build nodes.

- Other topics

- ATLAS has faced some inefficiencies with our EOS repository in the last days. We have confirmed the same behaviour. In addition, they have found some issues with the Davix version we have provided in LCG_88a and LCG_93a (v0.6.7) and the corresponding ROOT versions deployed in the mentioned releases. Based on further investigations that they are currently performing, a patch to the ROOT team might be requested
- ATLAS has managed the setup of their nightly infrastructure against our nightly builds.
- Ilias is currently documenting the full docker infrastructure we have for our build nodes in order to ensure its reproducibility.
- Simone is working on the cvmfs release with docker containers. Rafal explained to Simone what we are planning to do for the distribution of LCG releases in docker containers
- Diogo has asked to the IT DB group the provision of certain packages to include in SWAN.
- Graeme announced the next Packaging meeting that will treat about the tests they are performing with docker containers for Spark.
- Juan has announced that the LCG-based Python distribution will soon be made available in the TN based on the LCG_93 distribution. all packages are behaving as expected. There is only a problem with Spyder and its compatibility with the Qt5 version we provided in the mentioned release. This is affecting only the Qt5WebEngine module
 - NOTE: Based on the difficulties this module is having we will treat during the next meeting the possibility to provide Qt5 without the mentioned module.